Monitoring Data Record

Project Title: I-2511CB (I-85 Widening) COE Action ID: 200221534
Stream Name: Town Creek (Site 5) DWQ Number: 040271
City, County and other Location Information: Rowan County, I-85 Widening (-TI-PINC Sta. 20+35)
Date Construction Completed: Water turned on 12/6/06, Stream reforestation completed 12/13/06
Monitoring Year: (1) of 5
Ecoregion: 8 digit HUC unit 03040103
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 1,375 Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 9/4/08
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd, Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level **1** ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Monitoring Schedule: The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period: Reference photos; plant survival (i.e., identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action); visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall submit the monitoring reports to the Corps of Engineers, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the five-year monitoring period, the Corps of Engineers, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 5 photo point locations, 2 photos at each location. 2 additional photos were taken as an overview of the buffer area.
Dates reference photos have been taken at this site: 1/23/08, 9/4/08

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):
During the last monitoring evaluation it was noted that the buffer area was lacking planted vegetation.

Estimated causes, and proposed/required remedial action**:** The buffer area was replanted with river birch, swamp chestnut oak, and willow oak on 2/29/08.

ADDITIONAL COMMENTS: Planted vegetation consisted of black willow and silky dogwood live stakes on the streambanks and tag alder, green ash, red maple, river birch, swamp chestnut oak, willow oak, and sycamore bareroot seedlings in the buffer area. The planted species were noted surviving on site. Other vegetation noted included lespedeza, goldenrod, *Juncus* sp., cattail, sweetgum, privet, pokeberry, *Sagittaria* sp., ragweed, and various grasses. Some minor beaver activity was noted on site. NCDOT will continue to monitor vegetation at this stream relocation.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The Town Creek stream relocation is stable for the Year 1 Summer evaluation. There is evidence that a bankfull event has occurred since the last monitoring visit.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

Town Creek

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

Photo Point #3 (Downstream)

Year 1 Summer – September 2008

Town Creek

Photo Point #4 (Upstream)

Photo Point #4 (Downstream)

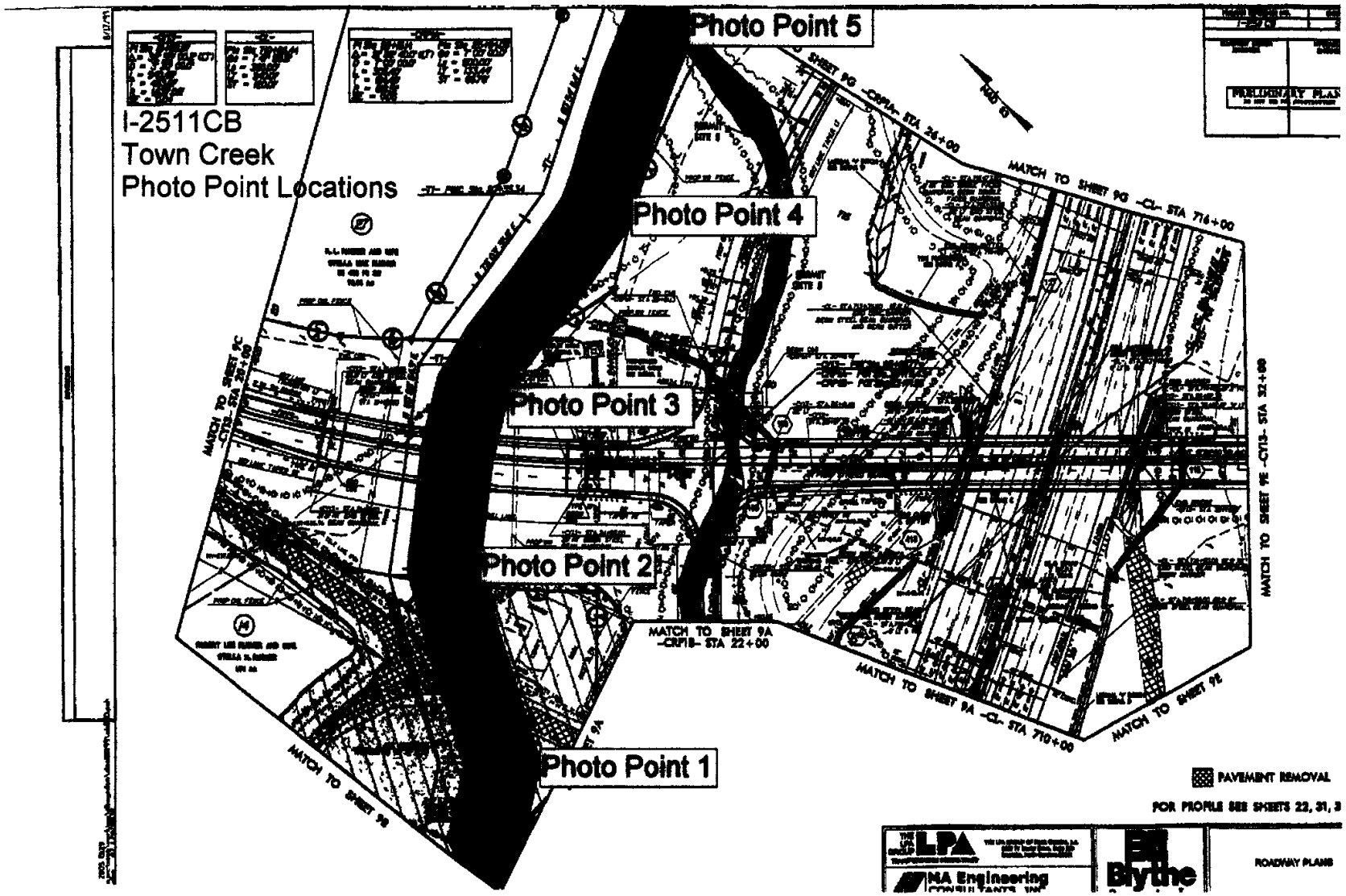
Photo Point # 5 (Upstream)

Photo Point #5 (Downstream)

(Overview looking downstream of buffer area)

(Overview looking upstream of buffer area)

Year 1 Summer – September 2008


I-2511CB
Town Creek
Photo Point Locations
Photo Point 5
Photo Point 4
Photo Point 3
Photo Point 2
Photo Point 1
MATCH TO SHEET 9C -CRP1A- STA 26+00
MATCH TO SHEET 9C -CL- STA 716+00
MATCH TO SHEET 9A -CRP1B- STA 22+00
MATCH TO SHEET 9A -CL- STA 710+00
MATCH TO SHEET 9B
MATCH TO SHEET 9B -CL- STA 32+00
PAVEMENT REMOVAL
FOR PROFILE SEE SHEETS 22, 31, 3
LPA
NA Engineering
Blythe
ROADWAY PLANS